

Fig. 1a – PRIOR ART

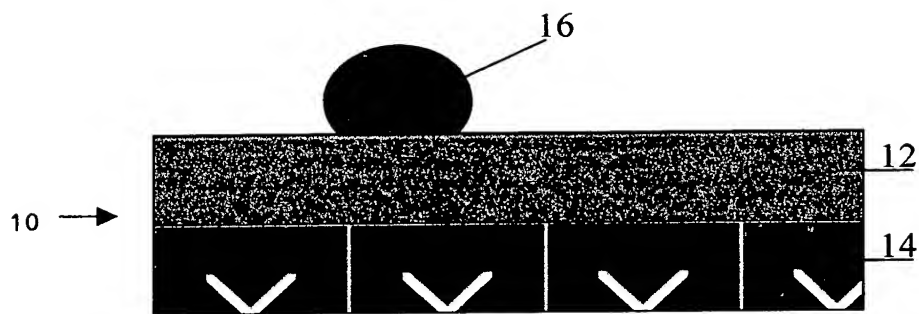


Fig. 1b – PRIOR ART

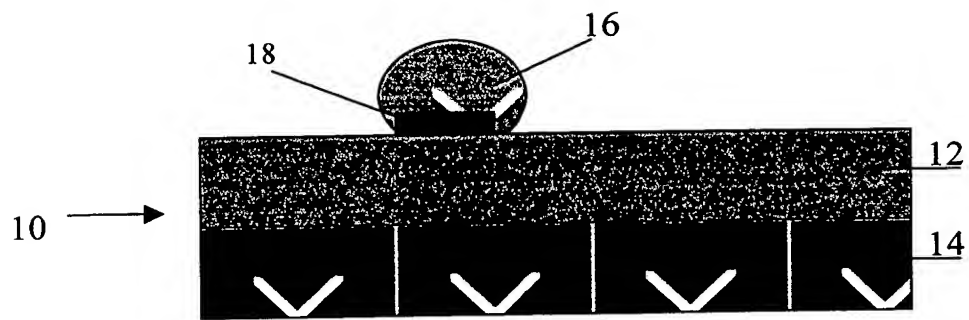


Fig. 1c -PRIOR ART

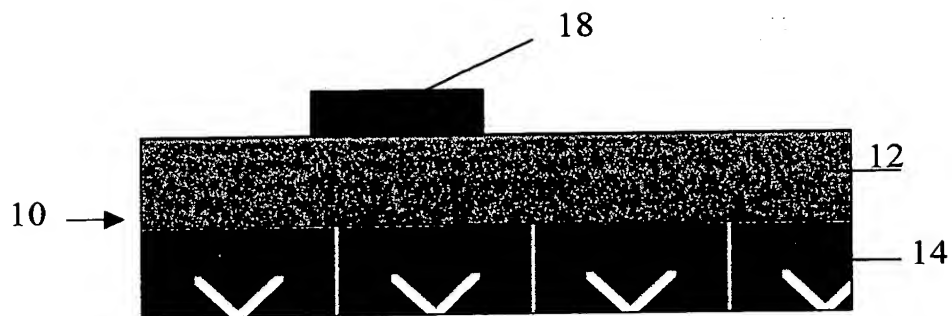


Fig. 1d - PRIOR ART

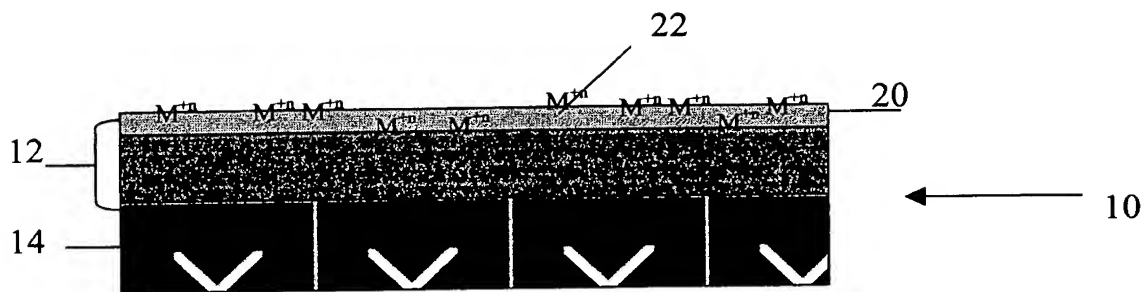


Fig. 2

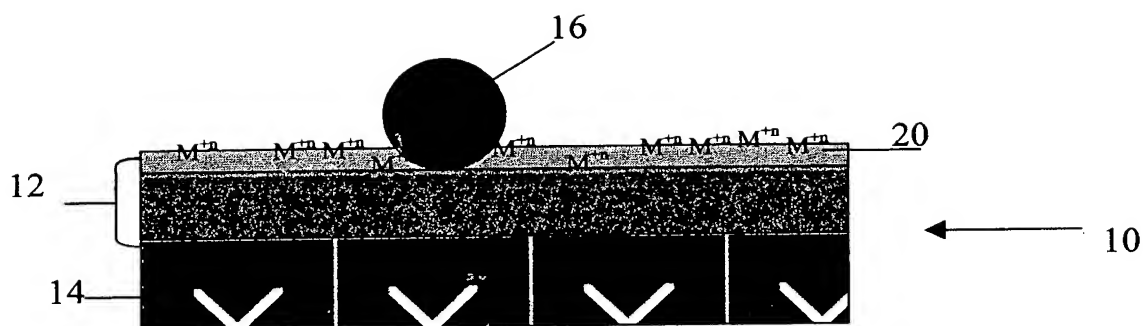


Fig. 3

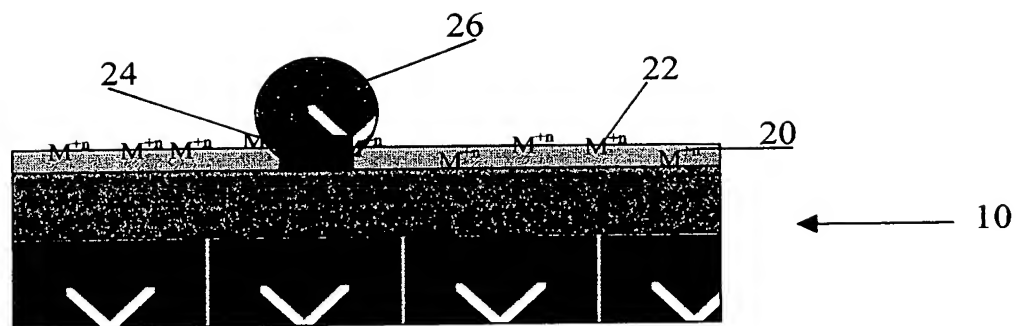


Fig. 4

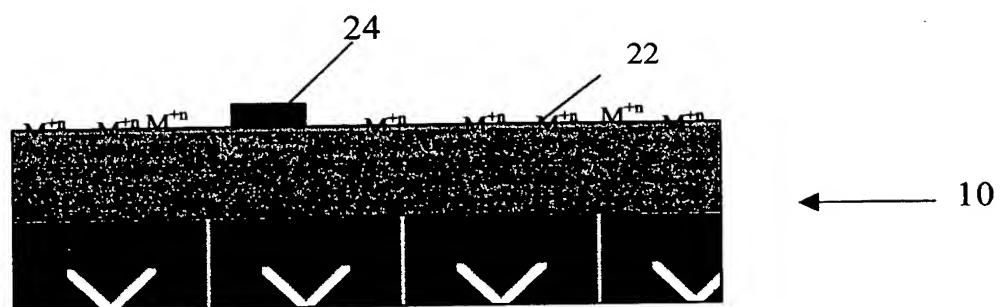


Fig. 5



Table 1

Company	Application	Grade	Treated	Dot diameter
Speciality Coating	Wall cover	90/90 SMW3	non	70 μ m
			Treated	60 μ m
Speciality Coating	Wall cover	90/90 Standar 182	non	70 μ m
			Treated	65 μ m
Speciality Coating	Wall cover	90/90 XER3	non	75 μ m
			Treated	65 μ m
Speciality Coating	Wall cover	80/90 DT319	non	70 μ m
			Treated	60 μ m
Speciality Coating	Wall cover	90/120 LTE 15	non	75 μ m
			Treated	60 μ m
FORBO	Wall cover	Vinyl 90/90	non	70 μ m
			Treated	60 μ m
Chamberlin	Wall cover	CP 90/90	non	75 μ m
			Treated	65 μ m
Borasrtapeter	Wall cover	4811 Non Woven Lystil	non	85 μ m
			Treated	75 μ m

Table 2

Company	Application	Grade	Coating	Print quality	Dot diameter	Optical density
Multi Fix	Self -Adhesive	Digital white - premium	Base	Bad	Impossible to measure	
			treated	good		
Formerly Meyercord International Inc.	Self -Adhesive	72 A , premium vinyl	Base	Bad	Impossible to measure	
			treated	good		
BUSmark	Self -Adhesive	FLXcon	Base	Bad	Impossible to measure	
			treated	Good		
Jac	Self -Adhesive	SERILUX, 70100, DURO-E 110	Base	Bad	Impossible to measure	
			treated	good		
		SERILUX, 72100, DURO-E 110	Base	Bad	Impossible to measure	
			treated	good		
		SIGN INKJET, 70102, NONPERM A5	Base	Bad	Impossible to measure	
			treated	good		
Mactac	Self -Adhesive	MACSCREEN, 8129	Base	Bad	60 μ m	not measurable
			treated	good	60 μ m	
		MACSCREEN, 8128	Base	Bad	70 μ m	not measurable
			treated	good	60 μ m	
		MACal, 9829 S	Base	Bad	60 μ m	not measurable
			treated	good	60 μ m	
		MACal, 8929 S	Base	Bad	60 μ m	not measurable
			treated	good	60 μ m	
		JT 1629 P	Base	good	70 μ m	1.09
			treated	good	50-60 μ m	1.48
		JT 1628 P	Base	good	80 μ m	1.50
			treated	good	70 μ m	1.73
		JT 1828 R	Base	good	90 μ m	1.21
			treated	good	70-80 μ m	1.69
		JT 1829 R	Base	good	110 μ m	3.00
			treated	good	60 μ m	3.12
		JT 1820 P	Base	good	80-90 μ m	1.28
			treated	good	70-80 μ m	1.65
Avery Dennison	Self -Adhesive	3112	Base	Bad	Impossible to measure	
			treated	good		
		JT 1028 P	Base	good	50 μ m	1.86
			treated	good	50 μ m	1.75
		IPM Banner AD	Base	Bad	80 μ m	not measurable
			treated	good	70 μ m	
		MPI 1003	Base	Bad	60 μ m	not measurable
			treated	good	60 μ m	
		MPI 2002 AD	Base	Bad	60 μ m	not measurable
			treated	good	60 μ m	
		IPM 2031	Base	good	70-80 μ m	1.19
			treated	good	70-80 μ m	1.90

Table 3

	61A	61B	61C	61D	61E
ZnAc	13.14%	13.14%	13.14%	13.14%	13.14%
CaCl ₂	3.30%	3.30%	3.30%	3.30%	3.30%
Propyl acetate	5%	0	0	0	0
Butyl acetate	0	5%	0	0	0
Butyl lactate	0	0	5%	0	0
Ethyl lactate	0	0	0	5%	0
Ethyl acetate	0	0	0	0	5%
DEGBE	5%	5%	5%	5%	5%
Ethanol	39.85%	32%	12.35%	7.35%	12.35%
Water	33.71%	41.56%	61.21%	66.21%	61.21%

Table 4

	61A	61B	61C	61D	61E
O.D. before abrasion	2.01	1.95	2.26	2.13	2.06
O.D. after abrasion	1.78	1.76	1.85	1.80	1.94
O.D. decrease	-11%	-10%	-18%	-15%	-6%

Table 5

	62A	62B	62C	62D	62E
ZnAc	13.14%	13.14%	13.14%	13.14%	13.14%
CaCl ₂	3.30%	3.30%	3.30%	3.30%	3.30%
Propyl acetate	5%	0	0	0	0
Butyl acetate	0	5%	0	0	0
Butyl lactate	0	0	5%	0	0
Ethyl lactate	0	0	0	5%	0
Ethyl acetate	0	0	0	0	5%
BG	5%	5%	5%	5%	5%
Ethanol	39.85%	32%	12.35%	7.35%	12.35%
Water	33.71%	41.56%	61.21%	66.21%	61.21%

Table 6

	62A	62B	62C	62D	62E
O.D. before abrasion	2.26	2.06	2.22	2.20	1.96
O.D. after abrasion	1.94	1.90	1.97	1.78	1.73
O.D. decrease	-14%	-8%	-11%	-19%	-12%

Table 7

	63a	63B	63C	63D	63E
ZnAc	13.14%	13.14%	13.14%	13.14%	13.14%
CaCl ₂	3.30%	3.30%	3.30%	3.30%	3.30%
Propyl acetate	5%	0	0	0	0
Butyl acetate	0	5%	0	0	0
Butyl lactate	0	0	5%	0	0
Ethyl lactate	0	0	0	5%	0
Ethyl acetate	0	0	0	0	5%
DPM	5%	5%	5%	5%	5%
Ethanol	39.85%	32%	12.35%	7.35%	12.35%
Water	33.71%	41.56%	61.21%	66.21%	61.21%

Table 8

	63a	63B	63C	63D	63E
O.D. before abrasion	1.93	1.96	2.27	2.16	2.17
O.D. after abrasion	1.90	1.75	1.89	1.86	1.80
O.D. decrease	-2%	-11%	-17%	-14%	-17%

Table 9

O.D. before abrasion	1.88
O.D. after abrasion	1.71
O.D. decrease	-9%

Table 10

	Salt	Color change
65A	ZnAc	No change
65B	ZnCl ₂	Substrate became reddish
65C	CaCl ₂	No change

Table 11:

Sample	Coated /Uncoated	O.D. Magenta	O.D. Cyan	Drop Diameter
1	Uncoated	1.83	1.27	0.22 (wavy edges)
2	Coated	2.0	1.36	0.2 (sharp edges)